ND101

Antenna Switching Pin Diode

Features

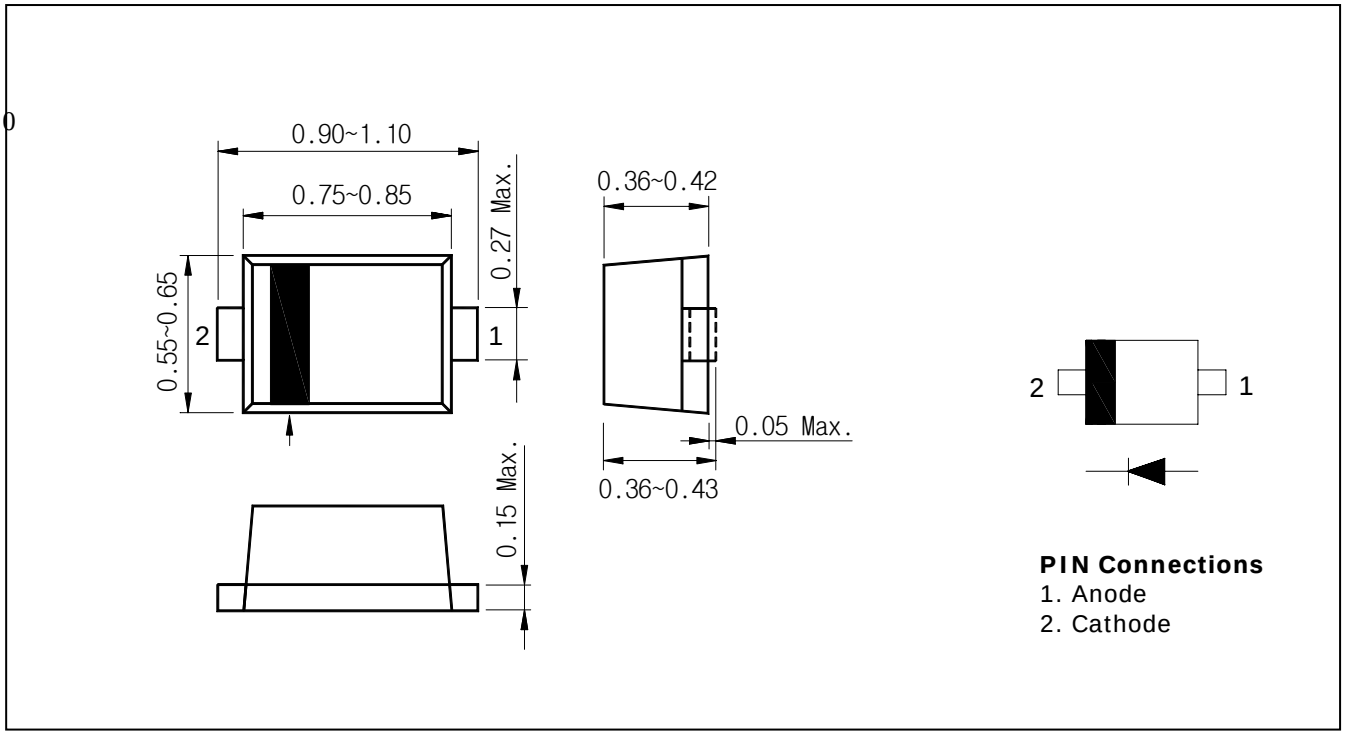
- Low capacitance : Max.0.4pF
- Low series resistance : rs= 1.0Ω(Typ.)@I_F=10mA
- UHF/VHF Band RF Switch Applications

Ordering Information

Type No.	Marking	Package Code
ND101	E	SOD-923

Outline Dimensions

unit : mm



Absolute Maximum Ratings

(Ta=25°C)

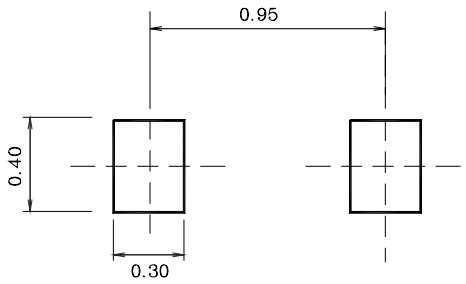
Characteristic	Symbol	Rating	Unit
Continuous reverse voltage	V_R	30	V
Forward current	I_F	50	mA
Junction temperature	T_j	150	°C
Storage temperature range	T_{stg}	-55 ~ 150	°C

Electrical Characteristics

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse voltage	V_R	I_R=10μA	30	-	-	V
Reverse current	I_R	V_R=30V	-	-	0.1	μA
Forward voltage	V_F	I_F=50mA	-	0.9	-	V
Total capacitance	C_T	V_R=1V, f=1MHz	-	0.3	0.4	pF
Series resistance	r_S	I_F=10mA, f=100MHz	-	1.0	1.5	Ω

※ Recommend PCB solder land (Unit : mm)



Electrical Characteristic Curves

Fig. 1 r_S - I_F

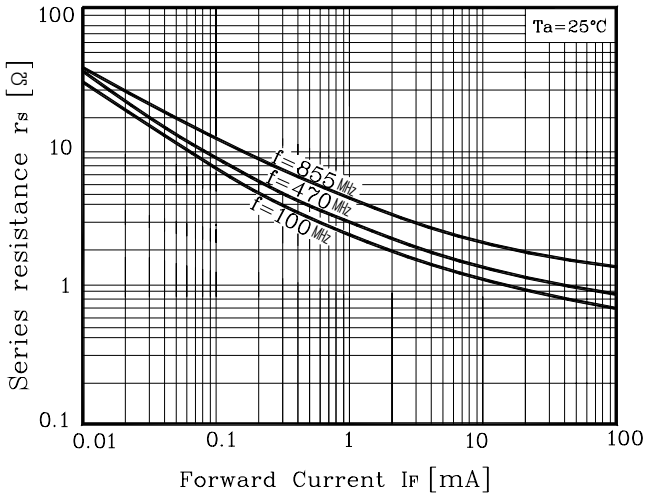


Fig. 2 C_T - V_R

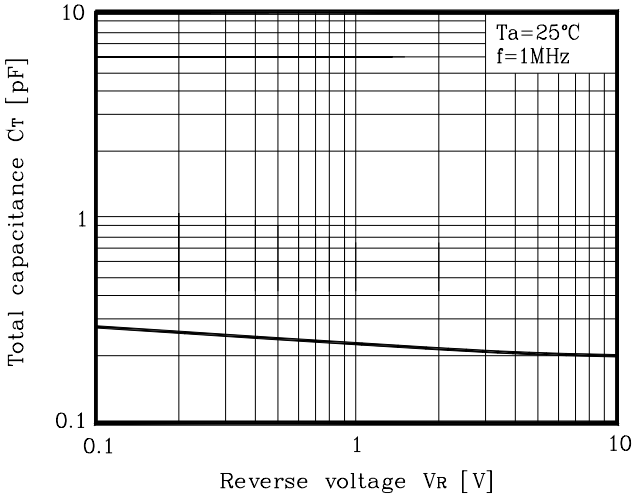
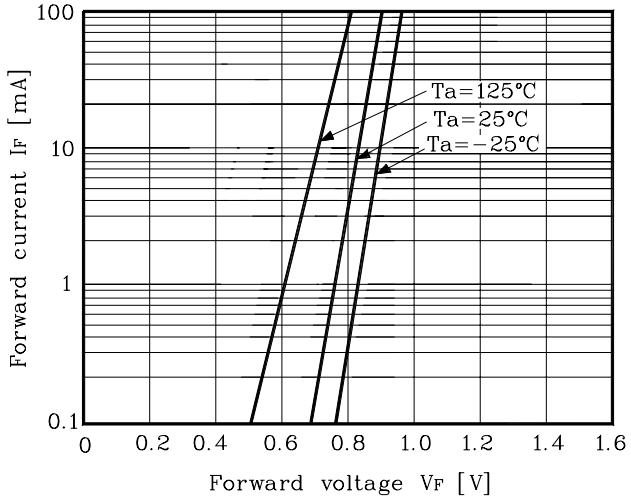


Fig. 3 I_F - V_F



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